



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

Department of Environmental Quality

William J. Sinclair
Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0141910001-09

February 18, 2009

Scott Bassett
Questar Pipeline Company
1140 West 200 South
PO Box 45360
Salt Lake City, UT 841450450

Dear Mr. Bassett:

Re: Intent to Approve: Addition of a New Dehydration Unit and Relocation of Two Grandfathered Dehydration Units, Daggett County; CDS B; Attainment Area
Project Number: N014191-0001

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Tad Anderson, who may be reached at (801) 536-4456.

Sincerely,

Ty L. Howard, Manager
New Source Review Section

TLH:TA:kw

cc: Mike Owens
Tri-County Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**INTENT TO APPROVE: Addition of a New Dehydration Unit and
Relocation of Two Grandfathered Dehydration Units**

Prepared By: Tad Anderson, Engineer

Phone: (801) 536-4456

Email: tdanderson@utah.gov

INTENT TO APPROVE NUMBER

DAQE-IN0141910001-09

Date: February 18, 2009

Clay Basin Gas Wells #2

Source Contact:

Mr. Scott Bassett

Phone: (801) 534-3820

**Ty L. Howard, Manager
New Source Review Section
Utah Division of Air Quality**

ABSTRACT

Questar Pipeline Company has requested to install one new dehydration unit and move two grandfathered dehydrations units at the Clay Basin Gas field. In the Clay Basin field, natural gas is dried by twenty-six (26) existing dehydration units which are located at separate injection/withdrawal wells. The dehydration units were installed during original construction of the Kastler Compressor Station located in Daggett County. Thirteen (13) of the dehydration units are grandfathered and the other 13 are permitted in DAQE-716-96. The dry natural gas is stored underground and then recovered for distribution and sale. The dehydration units are located at individual well sites that are located on contiguous and adjacent properties and are under common control, but as per definition of facility in 40 CFR 63.761 are considered separately.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Vernal Express on February 25, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Questar Pipeline Company
1140 West 200 South
PO Box 45360
Salt Lake City, UT 84145-0450

Permitted Location:

Clay Basin Gas Wells #2
Sections 16, 20, 21, 22, 23, 26 & 27 T3N, R24E
well field remote locations
Clay Basin, UT

UTM coordinates: 652000 m Easting, 4530000 m Northing
SIC code: 4922 (Natural Gas Transmission)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's

representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]

- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]
- I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 Clay Basin Well Field #2
Basin Wide
- II.A.2 Dehydration unit 0.25 MMbtu/hr
Dehydration unit 0.25 MMbtu/hr
Dehydration unit #54 - 4,538,002 North, 652,730 East
Stack Height of 10 meters from ground
- II.A.3 Dehydration unit 0.175 MMbtu/hr
Dehydration unit 0.175 MMbtu/hr and line heater 0.75 MMBTU/hr
#35 - 4,539,246 N, 649,263 E
- II.A.4 Dehydration unit 0.5 MMbtu/hr
Dehydration unit 0.5 MMbtu/hr and line heater
#38 - 4,537,800 N, 652,200 E
#39 - 4,538,163 N, 650324 E line heater 2.0 MMBTU/hr
#3 - 4,539,534 N, 651,031 E
W.G. #7C - 4,537,867 N, 649,713 E
#59 - 4,539,302 N, 649,717 E
- II.A.5 Dehydration unit 0.4 MMbtu/hr
Dehydration unit 0.4 MMbtu/hr and line heater
W.G. #2B - 4,537,806 N, 653,124 E
W.G. #2C - 4,537,800 N, 653,300 E
W.G. #5 - 4,537,177 N, 650,754 E
#6 - 4,538,320 N, 652,915 E

W.G. #9B - 4,539,211 N, 650,201 E
#37 - 4,537,524 N, 651,989 E

II.A.6 Dehydration unit 1.0 MMbtu/hr
Dehydration unit 1.0 MMbtu/hr and line heater
W.G. #1C - 4,537,352 N, 653,556 E
W.G. #15 - 4,538,963 N, 650,642 E

II.A.7 Grandfathered dehydrators
Grandfathered dehydrators
#2 - 4,538,806 N, 651,031 E
#4 - 4,537,466 N, 651,472 E
#28 - 4,538,105 N, 652,208 E
#40 - 4,538,792 N, 649,464 E
W.G.# 1A - 4,537,668 N, 653,705 E
W.G.# 1B - 4,537,676 N, 653,732 E
W.G.# 2A - 4,537,835 N, 653,136 E
W.G.# 6 - 4,538,935 N, 650,217 E
W.G.# 7A - 4,538,528 N, 649,944 E
W.G.# 7B - 4,538,549 N, 649,974 E
W.G.# 9A - 4,539,182 N, 649,969 E
W.G.# 10 - 4,539,439 N, 650,907 E
W.G.# 12 - 4,538,427 N, 649,080 E
W.G.# 14 - 4,537,682 N, 653,729 E

II.A.8 Dehydration unit 0.75 MMbtu/hr
Dehydration unit 0.75 MMbtu/hr and line heater
34 - 4,537,539 N, 652,640 E

II.B Requirements and Limitations

II.B.1 Dehydration Unit Requirements

II.B.1.a Opacity: Visible emissions from any dehydration unit listed in this permit shall not exceed 10% opacity. Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401]

II.B.1.b Questar shall not exceed 4000 hours per rolling 12-month period for each dehydration unit listed in this permit.

To determine compliance with a rolling 12-month total, Questar shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of operation shall be kept for all periods when each dehydration unit is in operation. The records of hours of operation shall be kept on a monthly basis. [R307-401]

II.B.2 Requirements on the New 0.25 MMBTU/hr Dehydration unit

II.B.2.a The stack height shall be 10 meters or higher from ground level. [R307-401]

PERMIT HISTORY

The final AO will be based on the following documents:

Supersedes

DAQE-716-96 dated July 15, 1996

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds